

SF/AR
6.9.1.1**MEMORANDUM****CH2MHILL****Assistance from Bob Hopper**

TO: Mary Kay Voytilla/EPA
FROM: Jim Stefanoff/CH2M HILL
Bill Hudson/CH2M HILL
DATE: August 14, 1998

Purpose

This memorandum provides a list of items or areas in which Bob Hopper's assistance would greatly benefit the Bunker Hill Mine Water Management Work Assignment. Additional items may be identified as the work assignment progresses.

Maps and Cross-Sections

1. Level maps
2. Mine cross-sections
3. Longitudinal stope maps

Access Assistance

1. Description of his expectations and requirements for mine access
2. Safety briefings and training per MSHA requirements for mine staff accompanied visitors
3. Access into the mine
4. Mine personnel to accompany visits
5. Milo Gulch access

Infrastructure Information

1. List and descriptions/specifications of infrastructure (pumps, pipes, hoists, electrical, compressors, etc.)
2. AMD conveyance layout and operational strategy
3. Infrastructure operation methodologies (muck removal, hoist operation, ventilation operation, etc.)

Data and Experience

1. Mine water flow and sample data
2. AMD generation data

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3. AMD control experience
4. In-mine sludge management ideas and information, such as most applicable wet/dry locations and capacities
5. AMD treatment experience and data
6. Related cost information
7. Fault information (locations and maintenance requirements)

Mine Viability

1. Ore reserves
2. Required production rates
3. Diamond drill logs
4. Costs and activities needed to return the mine to profitable production (profit plus pay for mine water management and mine maintenance)